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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/887,591	06/22/2001	Marc Delhoune	XEIKON.058AUS	8206

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EXAMINER	
MILIA, MARK R	

ART UNIT	PAPER NUMBER
2622	

DATE MAILED: 04/05/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No.	Applicant(s)	
	09/887,591	DELHOUNE ET AL.	
	Examiner	Art Unit	
	Mark R. Milia	2622	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1)☐ Responsive to communication(s) filed on _____.

2a)☐ This action is **FINAL**. 2b)☒ This action is non-final.

3)☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4)☒ Claim(s) 1-6 is/are pending in the application.

4a) Of the above claim(s) _____ is/are withdrawn from consideration.

5)☐ Claim(s) _____ is/are allowed.

6)☒ Claim(s) 1-6 is/are rejected.

7)☐ Claim(s) _____ is/are objected to.

8)☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9)☐ The specification is objected to by the Examiner.

10)☒ The drawing(s) filed on 22 June 2001 is/are: a)☒ accepted or b)☐ objected to by the Examiner.

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11)☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12)☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

a)☐ All b)☐ Some * c)☐ None of:

1.☐ Certified copies of the priority documents have been received.

2.☐ Certified copies of the priority documents have been received in Application No. _____.

3.☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) ☒ Notice of References Cited (PTO-892)
2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3) ☒ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 9/24/01.
4) ☐ Interview Summary (PTO-413) Paper No(s)/Mail Date. _____ .
5) ☐ Notice of Informal Patent Application (PTO-152)
6) ☐ Other: _____.

DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

> A person shall be entitled to a patent unless –
>
> (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-6 are rejected under 35 U.S.C. 102(b) as being anticipated by U.S. Patent No. 6049390 to Notredame et al.

Regarding claim 1, Notredame discloses a method of generating an image signal for an image reproduction comprising: a) identifying page elements associated with the image reproduction, the page elements comprising autonomic segments (see Figs. 3 and 9, column 5 lines 46-52, column 11 line 10-column 12 line 6, and column 12 line 59-column 13 line 24), converting a first layout signal associated with the page elements into a second layout signal associated with the autonomic segments (see column 6 lines 5-24, column 8 lines 25-31, and column 12 lines 13-23, reference shows continuous tone data and line-work page elements that include properties about merge mode and position on a page, as well as other properties, that make up a part of the autonomic segments), c) retrieving from memory, according to the second layout signal, the autonomic segments required to generate a fraction of the image reproduction (see column 18 lines 41-65), d) decompressing the autonomic segments (see column 19

lines 10-18), e) generating, according to the second layout signal, a first portion of the image signal for the image reproduction, while buffering the image data associated with a second portion of the image signal (see column 15 line 53-column 16 line 12 and column 26 lines 29-46), and repeating the sequence of c), d), and e) until the composition of the image signal is complete using a consecutive fraction of the image reproduction as the fraction, wherein the consecutive fraction at least partially overlaps with the second portion (see column 5 lines 61-65, column 17 lines 48-67, and column 26 line 15-column 27 line 35).

Regarding claim 2, Notredame discloses the method discussed in claim 1, and further discloses wherein the linear size of the portion of the image reproduction associated with an autonomic segment is smaller than or equal to half the linear size of the position of the image reproduction associated with the corresponding page element (see column 32 lines 30-39).

Regarding claim 3, Notredame discloses the method discussed in claim 1, and further discloses wherein the autonomic segments are one of the following: area tiles, image tiles or image blocks (see column 29 lines 49-54).

Regarding claim 4, Notredame discloses the method discussed in claim 3, and further discloses wherein line-work image data associated with the autonomic segments are compressed using a lossless compression format (see column 35 lines 49-50), in which two-dimensional blocks of the line-work image data are subjected to the following lossless steps: (i) fractal reordering (see column 35 lines 41-52 and column 36 lines 20-40), (ii) run length encoding of the fractal re-ordered data (see column 35 lines 53-57

and column 36 lines 20-40), (iii) index encoding of the pixel value of the run length encoded data (see column 35 lines 58-64 and column 36 lines 20-40), and (iv) entropy encoding of the index encoded pixel values (see column 36 lines 1-4 and 20-40).

Regarding claim 5, Notredame discloses the method discussed in claim 3, and further discloses wherein during the generation of the image signal an autonomic segment of a first page element which was compressed according to at least a first compression format and is merged after decompression with an autonomic segment of a second page element that was compressed according to at least a second compression format, different from the first compression format (see column 6 lines 37-45 and column 11 lines 10 and 58).

Regarding claim 6, Notredame discloses the method discussed in claim 2, and further discloses wherein the autonomic segments are one of the following: area tiles, image tiles or image blocks (see column 29 lines 49-54).

Conclusion

2. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. To further show the state of the art refer to U.S. Patent numbers 5966504 (Sity), 6320580 (Yasui et al.), 6774913 (Varga et al.), 6476931 (Aizikowitz et al.), 6563960 (Chan et al.), 6753974 (Hoel et al.), and 6856421 (Amir et al.).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Mark R. Milia whose telephone number is (571) 272-7408. The examiner can normally be reached M-F 8:00am-4:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Edward Coles can be reached at (571) 272-7402. The fax number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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Examiner
Art Unit 2622

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